



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/712,359
Source: IFW
Date Processed by STIC: 11/29/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENT IN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/712,359

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ____ Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ____ Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ____ Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.
- 4 ____ Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ____ Variable Length Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ____ PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ____ Skipped Sequences
 (OLD RULES) Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ____ Skipped Sequences
 (NEW RULES) Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 ____ Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ____ Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ____ Use of <220> Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ____ PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ____ Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

comply
do not need to
pp 2, 6

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/712,359

DATE: 11/29/2003

TIME: 13:13:21

Input Set : A:\16153-8007.txt

Output Set: N:\CRF4\11282003\J712359.raw

66 <213> ORGANISM: Saccharomyces polylysine
68 <400> SEQUENCE: 3
69 Thr Asp Ala Glu Ile Glu Asn Ser Pro Ala Ser Asp Leu Lys Glu Leu
70 1 5 10 15
72 Asn Leu Glu Asn Glu Gly Val Glu Gln Gln Asp Gln Ala Lys Ala Asp
73 20 25 30
75 Glu Ser Asp Pro Val Glu Ser Lys Lys Lys Lys Asn Lys Lys Lys Lys
76 35 40 45
78 Lys Lys Lys Ser Asn Val Lys Lys Ile
79 50 55
82 <210> SEQ ID NO: 4
83 <211> LENGTH: 35
84 <212> TYPE: DNA
85 <213> ORGANISM: Synthetic oligonucleotide
87 <400> SEQUENCE: 4
88 caaccattgt gctgcagctt tcacacccaa tgcag 35
90 <210> SEQ ID NO: 5
91 <211> LENGTH: 35
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
97 oligonucleotide
99 <400> SEQUENCE: 5
100 ctgcattggg tgtgaaagct gcagcacaat ggttg 35
102 <210> SEQ ID NO: 6
103 <211> LENGTH: 478
104 <212> TYPE: PRT
105 <213> ORGANISM: Human dnvMetAP2
107 <220> FEATURE:
108 <221> NAME/KEY: SITE
109 <222> LOCATION: (219)
110 <223> OTHER INFORMATION: May be any naturally occurring amino acid
112 <220> FEATURE:
113 <221> NAME/KEY: SITE
114 <222> LOCATION: (231)
115 <223> OTHER INFORMATION: May be any amino acid, except His
117 <220> FEATURE:
118 <221> NAME/KEY: SITE
119 <222> LOCATION: (251)
120 <223> OTHER INFORMATION: May be any naturally occurring amino acid
122 <220> FEATURE:
123 <221> NAME/KEY: SITE
124 <222> LOCATION: (262)
125 <223> OTHER INFORMATION: May be any naturally occurring amino acid
127 <220> FEATURE:
128 <221> NAME/KEY: SITE
129 <222> LOCATION: (328)
130 <223> OTHER INFORMATION: May be any naturally occurring amino acid

invalid response - see item 10 on Error Summary Sheet

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Input Set : A:\16153-8007.txt

Output Set: N:\CRF4\11282003\J712359.raw

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132 <220> FEATURE:
133 <221> NAME/KEY: SITE
134 <222> LOCATION: (331)
135 <223> OTHER INFORMATION: May be any naturally occurring amino acid
137 <220> FEATURE:
138 <221> NAME/KEY: SITE
139 <222> LOCATION: (338)..(339)
140 <223> OTHER INFORMATION: May be any naturally occurring amino acid
142 <220> FEATURE:
143 <221> NAME/KEY: SITE
144 <222> LOCATION: (364)
145 <223> OTHER INFORMATION: May be any naturally occurring amino acid
147 <220> FEATURE:
148 <221> NAME/KEY: SITE
149 <222> LOCATION: (444)
150 <223> OTHER INFORMATION: May be any naturally occurring amino acid
152 <220> FEATURE:
153 <221> NAME/KEY: SITE
154 <222> LOCATION: (447)
155 <223> OTHER INFORMATION: May be any naturally occurring amino acid
157 <220> FEATURE:
158 <221> NAME/KEY: SITE
159 <222> LOCATION: (459)
160 <223> OTHER INFORMATION: May be any naturally occurring amino acid
162 <400> SEQUENCE: 6
163 Met Ala Gly Val Glu Glu Val Ala Ala Ser Gly Ser His Leu Asn Gly
164   1           5           10           15
166 Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly Ala Ala Ser Thr Ala Glu
167           20           25           30
169 Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys Lys Ser Lys Gly Pro
170           35           40           45
172 Ser Ala Ala Gly Glu Gln Glu Pro Asp Lys Glu Ser Gly Ala Ser Val
173           50           55           60
175 Asp Glu Val Ala Arg Gln Leu Glu Arg Ser Ala Leu Glu Asp Lys Glu
176  65           70           75           80
178 Arg Asp Glu Asp Asp Glu Asp Gly Asp Gly Asp Gly Asp Gly Ala Thr
179           85           90           95
181 Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys Arg Gly Pro Lys Val Gln
182           100          105          110
184 Thr Asp Pro Pro Ser Val Pro Ile Cys Asp Leu Tyr Pro Asn Gly Val
185           115          120          125
187 Phe Pro Lys Gly Gln Glu Cys Glu Tyr Pro Pro Thr Gln Asp Gly Arg
188           130          135          140
190 Thr Ala Ala Trp Arg Thr Ser Glu Glu Lys Lys Ala Leu Asp Gln
191 145           150           155           160
193 Ala Ser Glu Glu Ile Trp Asn Asp Phe Arg Glu Ala Ala Glu Ala His
194           165           170           175
196 Arg Gln Val Arg Lys Tyr Val Met Ser Trp Ile Lys Pro Gly Met Thr
197           180           185           190

```

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```

199 Met Ile Glu Ile Cys Glu Lys Leu Glu Asp Cys Ser Arg Lys Leu Ile
200      195      200      205
W--> 202 Lys Glu Asn Gly Leu Asn Ala Gly Leu Ala Xaa Pro Thr Gly Cys Ser
203      210      215      220
205 Leu Asn Asn Cys Ala Ala Xaa Tyr Thr Pro Asn Ala Gly Asp Thr Thr
206 225      230      235      240
208 Val Leu Gln Tyr Asp Asp Ile Cys Lys Ile Xaa Phe Gly Thr His Ile
209      245      250      255
211 Ser Gly Arg Ile Ile Xaa Cys Ala Phe Thr Val Thr Phe Asn Pro Lys
212      260      265      270
214 Tyr Asp Thr Leu Leu Lys Ala Val Lys Asp Ala Thr Asn Thr Gly Ile
215      275      280      285
217 Lys Cys Ala Gly Ile Asp Val Arg Leu Cys Asp Val Gly Glu Ala Ile
218      290      295      300
220 Gln Glu Val Met Glu Ser Tyr Glu Val Glu Ile Asp Gly Lys Thr Tyr
221 305      310      315      320
223 Gln Val Lys Pro Ile Arg Asn Xaa Asn Gly Xaa Ser Ile Gly Gln Tyr
224      325      330      335
226 Arg Xaa Xaa Ala Gly Lys Thr Val Pro Ile Val Lys Gly Gly Glu Ala
227      340      345      350
229 Thr Arg Met Glu Glu Gly Glu Val Tyr Ala Ile Xaa Thr Phe Gly Ser
230      355      360      365
232 Thr Gly Lys Gly Val Val His Asp Asp Met Glu Cys Ser His Tyr Met
233      370      375      380
235 Lys Asn Phe Asp Val Gly His Val Pro Ile Arg Leu Pro Arg Thr Lys
236 385      390      395      400
238 His Leu Leu Asn Val Ile Asn Glu Asn Phe Gly Thr Leu Ala Phe Cys
239      405      410      415
241 Arg Arg Trp Leu Asp Arg Leu Gly Glu Ser Lys Tyr Leu Met Ala Leu
242      420      425      430
244 Lys Asn Leu Cys Asp Leu Gly Ile Val Asp Pro Xaa Pro Pro Xaa Cys
245      435      440      445
247 Asp Ile Lys Gly Ser Tyr Thr Ala Gln Phe Xaa His Thr Ile Leu Leu
248      450      455      460
250 Arg Pro Thr Cys Lys Glu Val Val Ser Arg Gly Asp Asp Tyr
251 465      470      475
254 <210> SEQ ID NO: 7
255 <211> LENGTH: 478
256 <212> TYPE: PRT
257 <213> ORGANISM: Mouse MetAP2
259 <220> FEATURE:
260 <221> NAME/KEY: SITE
261 <222> LOCATION: (219)
262 <223> OTHER INFORMATION: May be any naturally occurring amino acid
264 <220> FEATURE:
265 <221> NAME/KEY: SITE
266 <222> LOCATION: (231)
267 <223> OTHER INFORMATION: May be any amino acid, except His
269 <220> FEATURE:

```

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Input Set : A:\16153-8007.txt

Output Set: N:\CRF4\11282003\J712359.raw

```

270 <221> NAME/KEY: SITE
271 <222> LOCATION: (251)
272 <223> OTHER INFORMATION: May be any naturally occurring amino acid
274 <220> FEATURE:
275 <221> NAME/KEY: SITE
276 <222> LOCATION: (262)
277 <223> OTHER INFORMATION: May be any naturally occurring amino acid
279 <220> FEATURE:
280 <221> NAME/KEY: SITE
281 <222> LOCATION: (328)
282 <223> OTHER INFORMATION: May be any naturally occurring amino acid
284 <220> FEATURE:
285 <221> NAME/KEY: SITE
286 <222> LOCATION: (331)
287 <223> OTHER INFORMATION: May be any naturally occurring amino acid
289 <220> FEATURE:
290 <221> NAME/KEY: SITE
291 <222> LOCATION: (338)..(339)
292 <223> OTHER INFORMATION: May be any naturally occurring amino acid
294 <220> FEATURE:
295 <221> NAME/KEY: SITE
296 <222> LOCATION: (364)
297 <223> OTHER INFORMATION: May be any naturally occurring amino acid
299 <220> FEATURE:
300 <221> NAME/KEY: SITE
301 <222> LOCATION: (444)
302 <223> OTHER INFORMATION: May be any naturally occurring amino acid
304 <220> FEATURE:
305 <221> NAME/KEY: SITE
306 <222> LOCATION: (447)
307 <223> OTHER INFORMATION: May be any naturally occurring amino acid
309 <220> FEATURE:
310 <221> NAME/KEY: SITE
311 <222> LOCATION: (459)
312 <223> OTHER INFORMATION: May be any naturally occurring amino acid
314 <400> SEQUENCE: 7
315 Met Ala Gly Val Glu Gln Ala Ala Ser Phe Gly Gly His Leu Asn Gly
316   1           5           10           15
318 Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly Thr Ser Ser Thr Ala Glu
319           20           25           30
321 Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys Lys Lys Gly Lys Gly Ala
322           35           40           45
324 Val Ser Ala Val Gln Gln Glu Leu Asp Lys Glu Ser Gly Ala Leu Val
325           50           55           60
327 Asp Glu Val Ala Lys Gln Leu Glu Ser Gln Ala Leu Glu Glu Lys Glu
328           65           70           75           80
330 Arg Asp Asp Asp Asp Glu Asp Gly Asp Gly Asp Ala Asp Gly Ala Thr
331           85           90           95
333 Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys Arg Gly Pro Lys Val Gln

```

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 11/29/2003

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Input Set : A:\16153-8007.txt

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 219,231,251,262,328,331,338,339,364,444,447,459

Seq#:7; Xaa Pos. 219,231,251,262,328,331,338,339,364,444,447,459

Seq#:8; Xaa Pos. 162,174,194,205,271,274,281,282,307,387,390,402

Seq#:9; N Pos. 693

Seq#:10; N Pos. 693

Seq#:11; N Pos. 522

Seq#:16; Xaa Pos. 219,231,251,262,328,331,338,339,364,444,447,459

Seq#:18; N Pos. 779